

NITL ★ P73 90-250780/33 ★ J0 2174-224-A  
Polyimide composite membrane prodn. - involves contacting  
polyimide membrane having anisotropic structure with organic  
soln. contg. crosslinking (meth)acrylate copolymer resin

NITTO DENKO CORP 00.00.89-JP-294465 (14.01.83-JP-004480)

A26 J01 (A32 A55) (05.07.80) B01d-68/12 B01d-71/64 B32b-05/18  
00.00.89 as 294465 Div ex 14.1.83-004480 (56RP)

Membrane is produced by contacting a base polyimide membrane  
having an anisotropic structure with a dense surface layer and a  
porous inner layer with an organic soln. contg. crosslinking resin  
whose average mol. wt. is larger than the fractionating mol. wt. of  
the base membrane; then crosslinking the resin to form an insoluble  
thin layer. Specific crosslinking resin of hydroxyalkyl  
(meth)acrylate copolymer and a polyfunctional crosslinking agent  
contg. more than two functional gps. capable of reacting with  
hydroxyl gps. are used.

Pref. polyisocyanate is used as a crosslinking agent.

USE/ADVANTAGE - The composite membrane resistant to  
organic solvent and gases can be obtd. using organic solvent soln.  
The membrane is used to separate solutes with less than tens to  
thousands mol. wt. from organic liq. It is also used for gas concn. or  
sepn. (6pp Dwg.No.0/0)

N90-194253